AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions and listings of the claims in this application.

<u>Listing of the Claims</u>:

1. (Currently amended) A moldable-foam molding whose with a density is in the range from 8 to 100 g/l, said molding obtainable via fusion of prefoamed foam beads emposed of comprising expandable, pelletized thermoplastic polymer materials, said polymer materials comprising:

from 50 to 90% by weight of polystyrene B), selected from free-radical-polymerized glass-clear polystyrene (GPPS) or anionically polymerized polystyrene (APS), and

from 10 to 50% by weight of styrene copolymer A), selected from styrene-butadiene block copolymer, styrene-α-methylstyrene copolymer, acrylonitrile-butadiene-styrene (ABS), styrene-acrylonitrile (SAN), acrylonitrile-styrene-acrylate (ASA), methacrylate-butadiene-styrene (MBS), and or methyl methacrylate-acrylonitrile-butadiene-styrene (MABS) polymers.

- 2. (Currently amended) The moldable-foam molding according to claim 1, wherein at least 80% of the cells of the individual foam beads are of closed-cell type.
- 3. (Currently amended) An expandable, pelletized thermoplastic polymer material which comprises;

from 50 to 90% by weight of polystyrene B), selected from free-radical-polymerized glass-clear polystyrene (GPPS) or anionically polymerized polystyrene (APS), and

from 10 to 50% by weight of styrene copolymer A), selected from styrene-butadiene block copolymer, styrene-α-methylstyrene copolymer, acrylonitrile-butadiene-styrene (ABS), styrene-acrylonitrile (SAN), acrylonitrile-styrene-acrylate (ASA), methacrylate-butadiene-styrene (MBS), and or methyl methacrylate-acrylonitrile-butadiene-styrene (MABS) polymers.

4. (Currently amended) The expandable, pelletized thermoplastic polymer material according to claim 3, which comprises further comprising from 3 to 7% by weight of an organic blowing agent.

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- 5. (Currently amended) A process for preparing expandable, pelletized thermoplastic polymer materials according to claim 3, encompassing comprising the steps of:
- a) preparing a mixture from from 50 to 90% by weight of polystyrene B), selected from free-radical-polymerized glass-clear polystyrene (GPPS) or anionically polymerized polystyrene (APS), and from 10 to 50% by weight of styrene copolymer A), selected from styrene-butadiene block copolymer, styrene-α-methylstyrene copolymer, acrylonitrile-butadiene-styrene (ABS), styrene-acrylonitrile (SAN), acrylonitrile-styrene-acrylate (ASA), methacrylate-butadiene-styrene (MBS), and or methyl methacrylate-acrylonitrile-butadiene-styrene (MABS) polymers.
- b) <u>heating the mixture</u> using a static or dynamic mixer at a temperature of at least 150°C to <u>form a polymer melt, and incorporate adding</u> an organic blowing agent into the polymer to the melt,;
- c) cooling the polymer melt comprising blowing agents to a temperature of at least 120°C,
- d) discharge via discharging the cooled melt through a die with holes whose diameter at the discharge from the die is at most 1.5 mm, and
- e) pelletizing the melt comprising blowing agent directly downstream of the die plate under water at a pressure in the range from 1 to 20 bar.
- 6. (Currently amended) A process for producing moldable-foam moldings, according to claim 1, wherein hot air or steam is used in a first step to prefoam expandable, pelletized thermoplastic polymer materials according to claim 3 to give foam beads whose

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density is in the range from 8 to 100 g/l, and, in a second step, these are the polymer materials are fused in a closed mold.

7. (New) A process for making foam molding comprising injecting hot air or steam into a polymer mixture comprising from 50 to 90% by weight of polystyrene B selected from free-radical-polymerized glass-clear polystyrene (GPPS) or anionically polymerized polystyrene (APS), and from 10 to 50% by weight of styrene copolymer A selected from styrene-butadiene block copolymer, styrene-α-methylstyrene copolymer, acrylonitrile-butadiene-styrene (ABS), styrene-acrylonitrile (SAN), acrylonitrile-styrene-acrylate (ASA), methacrylate-butadiene-styrene (MBS), or methyl methacrylate-acrylonitrile-butadiene-styrene (MABS) polymers to form beads with a density from 8 to 100 g/L, the process comprising:

heating the mixture using a static or dynamic mixer at a temperature of at least 150°C to form a polymer melt, and adding an organic blowing agent to the melt;

cooling the polymer melt comprising blowing agents to a temperature of at least 120°C; discharging the cooled melt through a die with holes whose diameter is at most 1.5 mm; and

pelletizing the melt comprising blowing agent downstream of the die plate under water at a pressure from 1 to 20 bar.

- 8. (New) The process of claim 7, wherein the polymer mixture has a Mw from 190,000 to 400,000 g/mol.
- 9. (New) The polymer material of claim 3, wherein the polymer mixture has a Mw from 190,000 to 400,000 g/mol.
- 10. (New) The process of claim 7, wherein the polymer mixture has a polydispersity Mw/Mn of at most 3.5 or less.

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- 11. (New) The process of claim 10, wherein the polydispersity is from 1.5 to 2.8.
- 12. (New) The polymer material of claim 3, with a polydispersity Mw/Mn of from 1.5 to 2.8.